re-run #7

1600

RAW SEQUENCE LISTING   DATE: 10/21/2002
PATENT APPLICATION: US/10/088,079   TIME: 19:50:23

Input Set : A:\US10088079.raw
Output Set: N:\CRF4\10212002\J088079.raw   **ENTERED**

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 1 <110> APPLICANT: National Research Council of Canada
 2 <120> TITLE OF INVENTION: Transgenic manipulation of sn-glycerol-3-phosphate and
 3       glycerol production with a feedback defective
 4       glycerol-3-phosphate dehydrogenase gene
 5 <130> FILE REFERENCE: 45419
 6 <140> CURRENT APPLICATION NUMBER: US/10/088,079
 7 <141> CURRENT FILING DATE: 2002-03-21
 8 <150> PRIOR APPLICATION NUMBER: US60/155133
 9 <151> PRIOR FILING DATE: 1999-09-22
10 <160> NUMBER OF SEQ ID NOS: 6
11 <170> SOFTWARE: PatentIn Ver. 2.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 1020
15 <212> TYPE: DNA
16 <213> ORGANISM: Escherichia coli
17 <400> SEQUENCE: 1
18       atgaaccaac gtaatgcttc aatgactgtg atcggtgccg gctcgtacgg caccgctctt 60
19       gccatcaccc tggcaagaaa tggccacgag gttgtcctct ggggccatga ccctgaacat 120
20       atcgcaacgc ttgaacgcga ccgctgtaac gccgcgtttc tccccgatgt gccttttccc 180
21       gatacgctcc atcttgaaag cgatctcgcc actgcgctgg cagccagccg taatattctc 240
22      ·gtcgtcgtac ccagccatgt ctttggtgaa gtgctgcgcc agattaaacc actgatgcgt 300
23       cctgatgcgc gtctggtgtg ggcgaccaaa gggctggaag cggaaaccgg acgtctgtta 360
24       caggacgtgg cgcgtgaggc cttaggcgat caaattccgc tggcggttat ctctggccca 420
25       acgtttgcga aagaactggc ggcaggttta ccgacagcta tttcgctggc ctcgaccgat 480
26       cagacctttg ccgatgatct ccagcagctg ctgcactgcg gcaaaagttt ccgcgtttac 540
27       agcaatccgg atttcattgg cgtgcagctt ggcggcgcgg tgaaaaacgt tattgccatt 600
28       ggtgcgggga tgtccgacgg tatcggtttt ggtgcgaatg cgcgtacggc gctgatcacc 660
29       cgtgggctgg ctgaaatgtc gcgtcttggt gcggcgctgg gtgccgaccc tgccaccttt 720
30       atgggcatgg cggggcttgg cgatctggtg cttacctgta ccgaaaacca gtcgcgtaac 780
31       cgccgttttg gcatgatgct cggtcagggc atggatgtac aaagcgcgca ggagaagatt 840
32       ggtcaggtgg tggaaggcta ccgcaatacg aaagaagtcc gcgaactggc gcatcgcttc 900
33       ggcgttgaaa tgccaataac cgaggaaatt tatcaagtat tatattgcgg aaaaaacgcg 960
34       cgcgaggcag cattgacttt actaggtcgt gcacgcaagg acgagcgcag cagccactaa 1020
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 339
38 <212> TYPE: PRT
39 <213> ORGANISM: Escherichia coli
40 <400> SEQUENCE: 2
41       Met Asn Gln Arg Asn Ala Ser Met Thr Val Ile Gly Ala Gly Ser Tyr
42        1               5                  10                  15
43       Gly Thr Ala Leu Ala Ile Thr Leu Ala Arg Asn Gly His Glu Val Val
44                      20                  25                  30
45       Leu Trp Gly His Asp Pro Glu His Ile Ala Thr Leu Glu Arg Asp Arg
```

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46              35                    40                    45
47      Cys Asn Ala Ala Phe Leu Pro Asp Val Pro Phe Pro Asp Thr Leu His
48              50                    55                    60
49      Leu Glu Ser Asp Leu Ala Thr Ala Leu Ala Ala Ser Arg Asn Ile Leu
50          65                    70                    75                80
51      Val Val Val Pro Ser His Val Phe Gly Glu Val Leu Arg Gln Ile Lys
52                      85                    90                    95
53      Pro Leu Met Arg Pro Asp Ala Arg Leu Val Trp Ala Thr Lys Gly Leu
54                  100                   105                   110
55      Glu Ala Glu Thr Gly Arg Leu Leu Gln Asp Val Ala Arg Glu Ala Leu
56              115                   120                   125
57      Gly Asp Gln Ile Pro Leu Ala Val Ile Ser Gly Pro Thr Phe Ala Lys
58          130                   135                   140
59      Glu Leu Ala Ala Gly Leu Pro Thr Ala Ile Ser Leu Ala Ser Thr Asp
60      145                   150                   155                160
61      Gln Thr Phe Ala Asp Asp Leu Gln Gln Leu Leu His Cys Gly Lys Ser
62                  165                   170                   175
63      Phe Arg Val Tyr Ser Asn Pro Asp Phe Ile Gly Val Gln Leu Gly Gly
64                  180                   185                   190
65      Ala Val Lys Asn Val Ile Ala Ile Gly Ala Gly Met Ser Asp Gly Ile
66                  195                   200                   205
67      Gly Phe Gly Ala Asn Ala Arg Thr Ala Leu Ile Thr Arg Gly Leu Ala
68          210                   215                   220
69      Glu Met Ser Arg Leu Gly Ala Ala Leu Gly Ala Asp Pro Ala Thr Phe
70      225                   230                   235                240
71      Met Gly Met Ala Gly Leu Gly Asp Leu Val Leu Thr Cys Thr Glu Asn
72                  245                   250                   255
73      Gln Ser Arg Asn Arg Arg Phe Gly Met Met Leu Gly Gln Gly Met Asp
74                  260                   265                   270
75      Val Gln Ser Ala Gln Glu Lys Ile Gly Gln Val Val Glu Gly Tyr Arg
76          275                   280                   285
77      Asn Thr Lys Glu Val Arg Glu Leu Ala His Arg Phe Gly Val Glu Met
78          290                   295                   300
79      Pro Ile Thr Glu Glu Ile Tyr Gln Val Leu Tyr Cys Gly Lys Asn Ala
80      305                   310                   315                320
81      Arg Glu Ala Ala Leu Thr Leu Leu Gly Arg Ala Arg Lys Asp Glu Arg
82                  325                   330                   335
83      Ser Ser His
85 <210> SEQ ID NO: 3
86 <211> LENGTH: 18
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
91      GPSA3
92 <400> SEQUENCE: 3
93      ttagtggctg ctgcgctc                                              18
95 <210> SEQ ID NO: 4
96 <211> LENGTH: 18
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97  <212> TYPE: DNA
98  <213> ORGANISM: Artificial Sequence
99  <220> FEATURE:
100 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
101       GPSA5
102 <400> SEQUENCE: 4
103       aacaatgaac caacgtaa                                          18
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106 <211> LENGTH: 26
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR pimer
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112 <400> SEQUENCE: 5
113       gagagctctt agtggctgct gcgctc                                 26
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116 <211> LENGTH: 30
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
121       GPSA51
122 <400> SEQUENCE: 6
123       gaagaaggat ccaacaatga accaacgtaa                             30
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/21/2002
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<u>Invalid Line Length:</u>
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

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VERIFICATION SUMMARY                    DATE: 10/21/2002
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